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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-08-08** **Date: 01/08/2017**

Customer : Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-17

Sample ID No : 2017-07-08-08-04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	04/07/2017	01/08/2017	150.42 X 150.34 X 150.36	22614	8.487	531.4	23.5	23.0
2	Drain Concrete	M20	04/07/2017	01/08/2017	150.29 X 150.25 X 150.22	22581	8.394	517.1	22.9	
3	Drain Concrete	M20	04/07/2017	01/08/2017	150.32 X 150.34 X 150.36	22599	8.476	510.7	22.6	

Note:
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Prepared by
Harsitha

AE-12

CIVIL Pro Sig. Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-07-08-08** **Date: 12/07/2017**
Customer	:	Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-17
Sample ID No	:	2017-07-08-08-05
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/07/2017	12/07/2017	150.25 X 150.29 X 150.21	22581	8.366	388.4	17.2	17.5
2	Drain Concrete	M20	05/07/2017	12/07/2017	150.24 X 150.22 X 150.34	22569	8.387	395.0	17.5	
3	Drain Concrete	M20	05/07/2017	12/07/2017	150.24 X 150.29 X 150.33	22580	8.389	404.2	17.9	

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Prepared by
Harsitha

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬಾಪೂಜಿ ನಗರ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಬಿ. ರಸ್ತೆ, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-08-08** **Date: 02/08/2017**

Customer : Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-17

Sample ID No : 2017-07-08-08-06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/07/2017	02/08/2017	150.35 X 150.33 X 150.39	22602	8.467	490.5	21.7	21.4
2	Drain Concrete	M20	05/07/2017	02/08/2017	150.31 X 150.33 X 150.36	22596	8.454	472.3	20.9	
3	Drain Concrete	M20	05/07/2017	02/08/2017	150.38 X 150.30 X 150.36	22602	8.486	485.9	21.5	

Note:

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Prepared by
Harsitha

AE-12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಮಲ್ಲೇ. ಎಂ. ಬಸ್ಟೆ, ಬಸವೇಶ್ವರನಗರ, ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-12-05** **Date: 14/07/2017**

Customer : Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-07-17

Sample ID No : 2017-07-12-05-01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	07/07/2017	14/07/2017	150.33 X 150.32 X 150.31	22598	8.459	531.0	23.5	23.4
2	Cement Concrete Pavement	M30	07/07/2017	14/07/2017	150.33 X 150.39 X 150.37	22608	8.467	522.2	23.1	
3	Cement Concrete Pavement	M30	07/07/2017	14/07/2017	150.30 X 150.28 X 150.22	22587	8.432	533.1	23.6	

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಎಸ್.ಎಂ. ರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು

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Quality Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-07-12-05** **Date: 04/08/2017**
Customer	:	Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-17
Sample ID No	:	2017-07-12-05-02
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	07/07/2017	04/08/2017	150.24 X 150.29 X 150.31	22580	8.389	733.8	32.5	32.1
2	Cement Concrete Pavement	M30	07/07/2017	04/08/2017	150.36 X 150.39 X 150.30	22613	8.477	714.6	31.6	
3	Cement Concrete Pavement	M30	07/07/2017	04/08/2017	150.32 X 150.37 X 150.29	22604	8.442	725.6	32.1	

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-07-12-05** **Date: 15/07/2017**
Customer	:	Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-17
Sample ID No	:	2017-07-12-05-03
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	08/07/2017	15/07/2017	150.29 X 150.30 X 150.31	22589	8.397	533.1	23.6	23.6
2	Cement Concrete Pavement	M30	08/07/2017	15/07/2017	150.35 X 150.31 X 150.37	22599	8.486	524.3	23.2	
3	Cement Concrete Pavement	M30	08/07/2017	15/07/2017	150.25 X 150.29 X 150.22	22581	8.387	539.7	23.9	

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Harsitha

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-07-12-05** **Date: 05/08/2017**
Customer	:	Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-17
Sample ID No	:	2017-07-12-05-04
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	08/07/2017	05/08/2017	150.32 X 150.29 X 150.30	22592	8.449	718.4	31.8	31.8
2	Cement Concrete Pavement	M30	08/07/2017	05/08/2017	150.36 X 150.34 X 150.31	22605	8.497	705.3	31.2	
3	Cement Concrete Pavement	M30	08/07/2017	05/08/2017	150.25 X 150.27 X 150.20	22578	8.345	731.5	32.4	

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Authorized Signatory
Quality Manager

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